

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006



## L5000b LITHOSTAR ULTRA DEVELOPER

SUBID : 000000007430

Version 7

Print Date 01.04.2009

Revision Date 17.12.2008

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance/preparation

Product name : L5000b LITHOSTAR ULTRA DEVELOPER

Use of the Substance/Preparation : Offset plate developer solution

#### Company/Undertaking Identification

Agfa-Gevaert Ltd.  
Vantage West  
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Brentford, Middlesex TW8 9AX  
United Kingdom

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### 2. HAZARDS IDENTIFICATION

#### EC-classification:

Symbol(s)	: Xn	Harmful
R-phrase(s)	: R40 R43 R68	Limited evidence of a carcinogenic effect. May cause sensitization by skin contact. Possible risk of irreversible effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 15. Full text of each relevant R-phrase is listed in section 16.

Aqueous offset plate developer solution, mainly consisting of:

#### Hazardous components

- |                                    |                                |     |   |     |
|------------------------------------|--------------------------------|-----|---|-----|
| • Hydroquinone                     | Concentration [%] :            | 1.0 | - | 5.0 |
| CAS-No.                            | : 123-31-9                     |     |   |     |
| Index-No.                          | : 604-005-00-4                 |     |   |     |
| EINECS-No.                         | : 204-617-8                    |     |   |     |
| Symbol(s)                          | : Xn, N                        |     |   |     |
| R-phrase(s)                        | : R22, R40, R41, R43, R50, R68 |     |   |     |
| • 1-Phenyl-4-methyl-3-pyrazolidone | Concentration [%] :            | 0.1 | - | 0.5 |
| CAS-No.                            | : 2654-57-1                    |     |   |     |
| EINECS-No.                         | : 220-180-6                    |     |   |     |
| Symbol(s)                          | : Xn, N                        |     |   |     |
| R-phrase(s)                        | : R22, R43, R51/53             |     |   |     |

#### Other

- |                               |                     |     |   |     |
|-------------------------------|---------------------|-----|---|-----|
| • Potassium aluminum sulphate | Concentration [%] : | 1.0 | - | 5.0 |
|-------------------------------|---------------------|-----|---|-----|

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### 4. FIRST AID MEASURES

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
- Ingestion : Rinse mouth with plenty of water. Seek medical advice.
- Inhalation : Take person to fresh air. If necessary, seek medical advice.

### 5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In case of fire, thermal decomposition with emission of hazardous fumes is possible (e.g. SO<sub>2</sub>).
- Further information : Product is not combustible.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : See section : Exposure controls / personel protection.
- Environmental precautions : For waste disposal see section 13.
- Methods for cleaning up : Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.
- Additional advice : Wash away residues with plenty of water.

### 7. HANDLING AND STORAGE

#### Handling

- Advice on protection against fire and explosion : No special protective measures against fire and explosion required.

#### Storage

- Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.
- Advice on common storage : Store away from strong acids and strong oxidizing agents (e.g. sodium hypochlorite).

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
Hydroquinone	123-31-9	0.5 mg/m <sup>3</sup>	TWA	2005	EH40 WEL
Potassium aluminum sulphate	10043-67-1	2 mg/m <sup>3</sup>	TWA	2005	EH40 WEL

#### Exposure controls

- Engineering measures : Ventilation should be sufficient so that any applicable occupational exposure limits are not exceeded.
- Hygiene measures : Observe normal precautions when handling chemicals. Avoid

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Hand protection	:	inhaling vapour. Keep away from foodstuffs, drinks and tobacco.
Eye protection	:	Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness $\geq$ 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness $\geq$ 0.38 mm, breakthrough time > 480 min) or neoprene (thickness $\geq$ 0.65 mm, breakthrough time > 240 min). For intermittent splash protection corresponding gloves with breakthrough times > 60 min can be used. Avoid gloves made of: natural latex.
	:	Safety glasses.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### General Information

Form	:	Liquid.
Colour	:	Colourless.
Odour	:	Odourless.

#### Important Health Safety and Environmental Information

Vapour pressure (20 °C)	:	23.00 hPa
Relative density (20 °C)	:	1.144
Solubility/qualitative	:	Miscible with water at all ratios.
pH (25 °C)	:	12.7
Melting point/range	:	< 0 °C
Boiling point/range	:	> 100 °C

### 10. STABILITY AND REACTIVITY

Stability	:	The product is stable under normal conditions of storage and use.
Conditions and materials to avoid	:	Avoid contact with strong acids and strong oxidizing agents (e.g. sodiumhypochlorite). Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.
Hazardous decomposition products	:	Sulphur dioxide

### 11. TOXICOLOGICAL INFORMATION

Limited evidence of a carcinogenic effect.  
May cause sensitization by skin contact.  
Possible risk of irreversible effects.

Toxicity data specific for individual ingredients in their pure state:

#### Acute oral toxicity

• Hydroquinone	:	LD50 rat	320 mg/kg
• 1-Phenyl-4-methyl-3-pyrazolidone	:	LD50 rat	627 mg/kg

#### Acute dermal toxicity

• Hydroquinone	:	LD50 cat	5,970 mg/kg
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### Other information

There is insufficient scientific evidence for classifying hydroquinone as a suspected carcinogenic or mutagenic substance in humans. Epidemiologic studies over a period of 48 years, wherein -during manufacturing and use of hydroquinone- more than 800 human individuals were daily exposed at significant airborne concentrations (greater than the MEL of 0.5 mg/m<sup>3</sup>), demonstrated that such exposure is not associated with the induction of cancer in humans.

Hazard labelling of this preparation or substance : see section 15.

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

#### Biodegradation

- Hydroquinone : OECD 301D Assessment of biological degradability  
> 80 % after 28 d

### Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

#### Toxicity to fish

- Hydroquinone : Species: Brachidanio rerio (zebra fish)  
LC50: 0.11 to 0.64 mg/l/ 96 h

#### Toxicity to daphnia

- Hydroquinone : Species: Daphnia magna (water flea)  
EC50: 0.3 mg/l/ 48 h

#### Toxicity to algae

- Hydroquinone : Species: Selenastrum capricornutum (algae)  
EC50: 0.3 mg/l/ 72 h

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

Environmental regulations, discharge of chemicals and washwater, waste treatment and disposal conditions of chemicals and their packaging may vary from one country to another. The relevant local regulations should be consulted. When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor. May be discharged to drain if local regulations permit.

For waste resulting from this product, it is recommended to use European Waste Code : 09 01 02 (water-based offset plate developer solutions).

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

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Hazardous components which must be listed on the label :

• CAS-No.	:	123-31-9	Hydroquinone
		2654-57-1	1-Phenyl-4-methyl-3-pyrazolidone
Symbol(s)	:	Xn	Harmful
R-phrases(s)	:	R40	Limited evidence of a carcinogenic effect.
		R43	May cause sensitization by skin contact.
		R68	Possible risk of irreversible effects.
S-phrases(s)	:	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

### 16. OTHER INFORMATION

Section(s) changed compared to the previous issue: 12

#### Further information

Text of R-phrases referred to under headings 2 and 3:

R22	Harmful if swallowed.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68	Possible risk of irreversible effects.

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.